



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4777-1

Job Sheet 186919



Part No: D4777-1

Job Qty: 20 ea

Part Name: Rod End Bearing



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/22/18

Job Tracking No:

Due Date: 12/7/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A IPP REV:A 12.10.03 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	20 pcs		12/7/18	0.00	0.00	Purchasing		DEC 12 2018
110	Packaging	20 pcs		12/7/18	0.00	0.00	Packaging2		DEC 12 2018
120	QC	20 pcs		12/7/18	0.00	0.00	QC6		38
130	Packaging	20 pcs		12/7/18	0.00	0.00	Packaging3-2		Dara
140	QC21-SA	20 Ea		12/7/18	0.00	0.00	QC21		21

Part Op 100 - Issue P/O: 41828 Purchase Part Number: 59915K274 or CTG
Descriptions: 110 - Ensure certificate of conformity is attached

NOV 23 2018

DAS 13 DEC 18 2018
9-89 ST115

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
59915K274	Rod End Bearing D4777-1	20 pcs (1 ea)	100-Purchasing	<u>5137347</u>

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	59915K274	20	0	0

Part Specifications

Specifications could not be found.

Plex 11/22/18 1:43 PM Dart.lajeunesse.marie



Container No: S137348

Part: D4777-1
Job No: 186919
Serial No/Batch: S137348

Revision:
Inspector:
Exp Date:
Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 12/12/18

DQA: _____ Date: _____



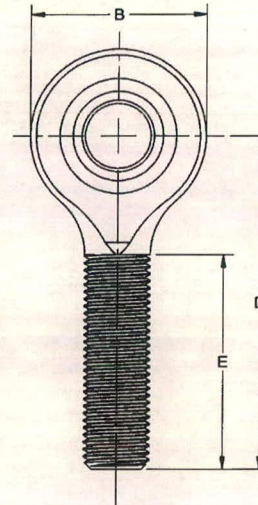
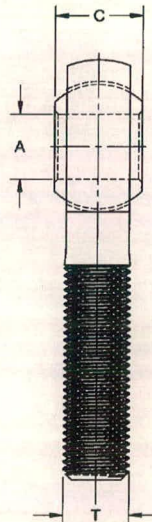
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

SPECIFICATION CONTROL DRAWING



ROD END BEARING

SHOOT COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITH OT NOTICE
WORK ORDER
186919 MJS
18-11-22

DART P/N	HOUSING MATERIAL	A	B	C	D	E	T (THREAD SIZE)	SUGGESTED SUPPLIER	SUGGESTED SUPPLIER P/N
D4777-1	STAINLESS STEEL	Ø0.38	1.00	0.500	1.94	1.25	3/8-24 (RIGHT HAND)	MC MASTER CARR	59915K274

RELEASED
2013-08-14

A	NEW ISSUE	AJS	13.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	D4777	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	ROD END BEARING	NTS
DATE	13.08.08	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041828**

Supplier: MCM001-VU
McMaster-Carr Supply Co.
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO041828

PO Date: 11/23/18

Due Date: 11/28/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
NOV 23 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	186919	59915K274		Rod End Bearing D4777-1	Firmed	-	11/28/18	20 pcs	0 pcs	20 pcs	\$19.05/pcs	\$381.00
Line Item Note as pwr dwg D4777 REV. A												
2		C2-8HC-41	91306A516 25/pk	Button Head Hex Drive Screws Zinc-Plated Alloy Steel, 1/4"-28, 3/4" long	Firmed	-	11/28/18	25 Ea	0 Ea	25 Ea	\$0.3164/Ea	\$7.91
3		C2-8HC-43	90126A029 220/pk	Zinc-Plated Steel SAE Washer 1/4" Screw Size, 0.281" ID, 0.625" OD	Firmed	-	11/28/18	220 Ea	0 Ea	220 Ea	\$0.0263181/Ea	\$5.79
4		C2-8HC-45	95615A130 100/pk	Medium-Strength Steel Nylon-Inser Locknut Grade 5, Zinc-Plated, 1/4"-28 Thread Size	Firmed	-	11/28/18	100 Ea	0 Ea	100 Ea	\$0.0575/Ea	\$5.75
5		1374N33	2 sf	Multipurpose Neoprene Rubber Sheet 50A, Adhesive-Back, 12" x 24", 1/16" Thick	Firmed	-	11/28/18	2 sf	0 sf	2 sf	\$15.60/sf	\$31.20



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PURCHASE ORDER **PO041828**

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
6		2044T47	4 ft long	Tube Ø1.09	Firmed	-	11/28/18	20 ft	0 ft	20 ft	\$0.605/ft	\$12.10
Line Item Note 4 PCS OF 4 FT 20 DEC 12 2018												
7		2044T67	50/pk	Cap Ø1.09 receive ea	Firmed	-	11/28/18	100 Ea	0 Ea	100 Ea	\$0.2354/Ea	\$23.54
8		3896T31	50/pk	Ferule 1/16 X 3/8" - Aluminum	Firmed	-	11/28/18	200 Ea	0 Ea	200 Ea	\$0.1312/Ea	\$26.24
9		51495K116	1/pk	COUPLING 1/2" NCKL PLTD BRASS	Firmed	-	11/28/18	10 Ea	0 Ea	10 Ea	\$7.78/Ea	\$77.80
10		8NR-74	91257A755 1/pk	Bolt 5*1/2	Firmed	-	11/28/18	10 Ea	0 Ea	10 Ea	\$2.31/Ea	\$23.10
11		91257A481	5/pk	Hex Head Screw 7/16"-20 x 6" LG.	Firmed	-	11/28/18	15 Ea	0 Ea	15 Ea	\$2.63/Ea	\$39.45
12		93839A820	25/pk	Thin Hex Nut 7/16"-20	Firmed	-	11/28/18	50 Ea	0 Ea	50 Ea	\$0.4228/Ea	\$21.14
13		94191A150	25/pk	Hex Nut 1/4-28 UNF receive pcs	Firmed	-	11/28/18	25 pcs	0 pcs	25 pcs	\$0.3036/pcs	\$7.59
14		97135A235	20/pk	Steel Nylon-Insert Locknut 3/8" x 29/64" High	Firmed	-	11/28/18	20 Ea	0 Ea	20 Ea	\$0.209/Ea	\$4.18
15		98381A336	25/pk	Steel Dowel Pin 1/4" Dia. x 2" Lg. Dowel Pin	Firmed	-	11/28/18	25 Ea	0 Ea	25 Ea	\$0.532/Ea	\$13.30
16		MDELINR1.000W	8572K61 5 ft	Delrin Round Bar 1" color: White : MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL	Firmed	-	11/28/18	5 ft	0 ft	5 ft	\$4.49/ft	\$22.45
17		RBEL135M-2901-101-39	9003K41 1/PK	Poly-V Groove Belt	Firmed	-	11/28/18	3 Ea	0 Ea	3 Ea	\$10.69/Ea	\$32.07
Grand Total:											\$734.61	



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PURCHASE ORDER PO041828

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/23/18 1:04 PM dart.lavoie.chantal



McMASTER-CARR®

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO041828

Page 1 of 1

12/11/2018

Order Placed By
Chantal Lavoie

McMaster-Carr Number
5175459-02

Line	Product	Ordered	Shipped
1	59915K274 Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	20 Each	20
2	91306A516 Button Head Hex Drive Screws, Zinc-Plated Alloy Steel, 1/4"-28 Thread, 3/4" Long, Packs of 25	1 Pack	1
3	90126A029 Zinc-Plated Steel SAE Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD, Packs of 220	1 Pack	1
4	95615A130 Medium-Strength Steel Nylon-Insert Locknut, Grade 5, Zinc-Plated, 1/4"-28 Thread Size, Packs of 100	1 Pack	1
5	1374N33 Multipurpose Neoprene Rubber Sheet, Adhesive-Back, with Certificate, 12" x 24", 1/16" Thick, 50A Durometer	1 Each	1
7	2044T67 End Caps for 1.09" ID Round Cut-to-Length Shipping Tube, Packs of 50	2 Packs	2
8	3896T31 Wire Rope Compression Sleeve for 1/16" Rope Diameter - Not for Lifting, Packs of 50	4 Packs	4
9	51495K116 Nickel-Plated Brass Push-to-Connect Tube Fitting for Air, Straight Connector, for 1/2" Tube OD	10 Each	10
10	91257A755 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 5" Long, Partially Threaded, Packs of 1	10 Packs	10
11	91257A481 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 7/16"-20 Thread Size, 6" Long, Packs of 5	3 Packs	3
12	93839A820 Zinc Yellow-Chromate Plated Steel Thin Hex Nut, Grade 8, High-Strength, 7/16"-20 Thread Size, Packs of 25	2 Packs	2
13	94191A150 Mil. Spec. High-Strength Steel Hex Nut, Grade 8, 1/4"-28 Thread Size, MS-51968-3, Packs of 25	1 Pack	1
14	97135A235 High-Strength Steel Nylon-Insert Locknut, Grade 8, Zinc Yellow-Chromate Plated, 3/8"-24 Thread Size, Packs of 20	1 Pack	1
15	98381A336 Dowel Pin, Black-Oxide Alloy Steel, 1/4" Diameter, 2" Long, Packs of 25	1 Pack	1
17	9003K41 Ultra-Flexible Banded V-Belt, Trade Number 180J4, 18-5/16" Outer Circumference	3 Each	3

DAS
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9-89

